

RAW SEQUENCE LISTING

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.

Application Serial Number: 10/561,196
Source: IFWP
Date Processed by STIC: 09/12/2006

ENTERED



IFWP

RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/561,196

DATE: 09/12/2006
TIME: 10:55:08

Input Set : A:\056222-5089-US Sequence Listing.txt
Output Set: N:\CRF4\09122006\J561196.raw

```

3 <110> APPLICANT: Dluzewski, Anton R
4 Holder, Anthony A
5 Birdsall, Berry M
6 Babon, Jeff J
7 Martin, Stephen R
8 Morgan, William D
9 Feeney, James
10 Blackman, Michael J
11 Fleck, Suzanne L
12 Saxty, Barbara
14 <120> TITLE OF INVENTION: SCREENING METHOD FOR SUBSTANCES BINDING TO
MEROZOITE SURFACE
15 PROTEIN-1/42
17 <130> FILE REFERENCE: 056222-5089
19 <140> CURRENT APPLICATION NUMBER: US 10/561,196
20 <141> CURRENT FILING DATE: 2005-12-16
22 <150> PRIOR APPLICATION NUMBER: PCT/GB2004/002604
23 <151> PRIOR FILING DATE: 2004-06-18
25 <150> PRIOR APPLICATION NUMBER: GB 0314114.0
26 <151> PRIOR FILING DATE: 2003-06-18
28 <160> NUMBER OF SEQ ID NOS: 15
30 <170> SOFTWARE: PatentIn Ver. 2.1
32 <210> SEQ ID NO: 1
33 <211> LENGTH: 12
34 <212> TYPE: PRT
35 <213> ORGANISM: Plasmodium falciparum
37 <400> SEQUENCE: 1
38 Tyr His His His His His Ile Glu Gly Arg His
39 1 5 10
43 <210> SEQ ID NO: 2
44 <211> LENGTH: 14
45 <212> TYPE: PRT
46 <213> ORGANISM: Plasmodium vivax
48 <400> SEQUENCE: 2
49 Met His His His His His Ile Glu Gly Arg Trp Ile Leu
50 1 5 10
54 <210> SEQ ID NO: 3
55 <211> LENGTH: 383
56 <212> TYPE: PRT
57 <213> ORGANISM: Plasmodium falciparum
59 <400> SEQUENCE: 3
60 Gly Glu Ala Val Thr Pro Ser Val Ile Asp Asn Ile Leu Ser Lys Ile
61 1 5 10 15
63 Glu Asn Glu Tyr Glu Val Leu Tyr Leu Lys Pro Leu Ala Gly Val Tyr

```

RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/561,196

DATE: 09/12/2006
TIME: 10:55:08

Input Set : A:\056222-5089-US Sequence Listing.txt
Output Set: N:\CRF4\09122006\J561196.raw

64	20	25	30
66	Arg Ser Leu Lys Lys Gln Leu Glu Asn Asn Val Met Thr Phe Asn Val		
67	35	40	45
69	Asn Val Lys Asp Ile Leu Asn Ser Arg Phe Asn Lys Arg Glu Asn Phe		
70	50	55	60
72	Lys Asn Val Leu Glu Ser Asp Leu Ile Pro Tyr Lys Asp Leu Thr Ser		
73	65	70	75
75	Ser Asn Tyr Val Val Lys Asp Pro Tyr Lys Phe Leu Asn Lys Glu Lys		80
76	85	90	95
78	Arg Asp Lys Phe Leu Ser Ser Tyr Asn Tyr Ile Lys Asp Ser Ile Asp		
79	100	105	110
81	Thr Asp Ile Asn Phe Ala Asn Asp Val Leu Gly Tyr Tyr Lys Ile Leu		
82	115	120	125
84	Ser Glu Lys Tyr Lys Ser Asp Leu Asp Ser Ile Lys Lys Tyr Ile Asn		
85	130	135	140
87	Asp Lys Gln Gly Glu Asn Glu Lys Tyr Leu Pro Phe Leu Asn Asn Ile		
88	145	150	155
90	Glu Thr Leu Tyr Lys Thr Val Asn Asp Lys Ile Asp Leu Phe Val Ile		160
91	165	170	175
93	His Leu Glu Ala Lys Val Leu Asn Tyr Thr Tyr Glu Lys Ser Asn Val		
94	180	185	190
96	Glu Val Lys Ile Lys Glu Leu Asn Tyr Leu Lys Thr Ile Gln Asp Lys		
97	195	200	205
99	Leu Ala Asp Phe Lys Lys Asn Asn Asn Phe Val Gly Ile Ala Asp Leu		
100	210	215	220
102	Ser Thr Asp Tyr Asn His Asn Asn Leu Leu Thr Lys Phe Leu Ser Thr		
103	225	230	235
105	Gly Met Val Phe Glu Asn Leu Ala Lys Thr Val Leu Ser Asn Leu Leu		240
106	245	250	255
108	Asp Gly Asn Leu Gln Gly Met Leu Asn Ile Ser Gln His Gln Cys Val		
109	260	265	270
111	Lys Lys Gln Cys Pro Gln Asn Ser Gly Cys Phe Arg His Leu Asp Glu		
112	275	280	285
114	Arg Glu Glu Cys Lys Cys Leu Leu Asn Tyr Lys Gln Glu Gly Asp Lys		
115	290	295	300
117	Pro Phe Trp Glu Leu Cys Val Glu Asn Pro Asn Pro Thr Cys Asn Glu		
118	305	310	315
120	Asn Asn Gly Gly Cys Asp Ala Asp Ala Lys Cys Thr Glu Glu Asp Ser		320
121	325	330	335
123	Gly Ser Asn Gly Lys Lys Ile Thr Cys Glu Cys Thr Lys Pro Asp Ser		
124	340	345	350
126	Tyr Pro Leu Phe Asp Gly Ile Phe Cys Ser Ser Ser Asn Phe Leu Gly		
127	355	360	365
129	Ile Ser Phe Leu Leu Ile Leu Met Leu Ile Leu Tyr Ser Phe Ile		
130	370	375	380
134	<210> SEQ ID NO: 4		
135	<211> LENGTH: 395		
136	<212> TYPE: PRT		
137	<213> ORGANISM: Plasmodium falciparum		

RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/561,196

DATE: 09/12/2006
TIME: 10:55:08

Input Set : A:\056222-5089-US Sequence Listing.txt
Output Set: N:\CRF4\09122006\J561196.raw

139 <400> SEQUENCE: 4
 140 Gly Glu Ala Ile Ser Val Thr Met Asp Asn Ile Leu Ser Gly Phe Glu
 141 1 5 10 15
 143 Asn Glu Tyr Asp Val Ile Tyr Leu Lys Pro Leu Ala Gly Val Tyr Arg
 144 20 25 30
 146 Ser Leu Lys Lys Gln Ile Glu Lys Asn Ile Ile Thr Phe Asn Leu Asn
 147 35 40 45
 149 Leu Asn Asp Ile Leu Asn Ser Arg Leu Lys Lys Gly Glu Ala Ile Ser
 150 50 55 60
 152 Val Thr Met Asp Asn Ile Leu Ser Gly Phe Glu Asn Glu Tyr Asp Val
 153 65 70 75 80
 155 Ile Tyr Leu Lys Pro Leu Ala Gly Val Tyr Arg Ser Leu Lys Lys Gln
 156 85 90 95
 158 Ile Glu Lys Asn Ile Ile Thr Phe Asn Leu Asn Leu Asn Asp Ile Leu
 159 100 105 110
 161 Asn Ser Arg Leu Lys Lys Gly Ile Ser Tyr Tyr Glu Lys Val Leu Ala
 162 115 120 125
 164 Lys Tyr Lys Asp Asp Leu Glu Ser Ile Lys Lys Val Ile Lys Glu Glu
 165 130 135 140
 167 Lys Glu Lys Phe Pro Ser Ser Pro Pro Thr Thr Pro Pro Ser Pro Ala
 168 145 150 155 160
 170 Lys Thr Asp Glu Gln Lys Lys Glu Ser Lys Phe Leu Pro Phe Leu Thr
 171 165 170 175
 173 Asn Ile Glu Thr Leu Tyr Asn Asn Leu Val Asn Lys Ile Asp Asp Tyr
 174 180 185 190
 176 Leu Ile Asn Leu Lys Ala Lys Ile Asn Asp Cys Asn Val Glu Lys Asp
 177 195 200 205
 179 Glu Ala His Val Lys Ile Thr Lys Leu Ser Asp Leu Lys Ala Ile Asp
 180 210 215 220
 182 Asp Lys Ile Asp Leu Phe Lys Asn Thr Asn Asp Phe Glu Ala Ile Lys
 183 225 230 235 240
 185 Lys Leu Ile Asn Asp Asp Thr Lys Lys Asp Met Leu Gly Lys Leu Leu
 186 245 250 255
 188 Ser Thr Gly Leu Val Gln Asn Phe Pro Asn Thr Ile Ile Ser Lys Leu
 189 260 265 270
 191 Ile Glu Gly Lys Phe Gln Asp Met Leu Asn Ile Ser Gln His Gln Cys
 192 275 280 285
 194 Val Lys Lys Gln Cys Pro Glu Asn Ser Gly Cys Phe Arg His Leu Asp
 195 290 295 300
 197 Glu Arg Glu Glu Cys Lys Cys Leu Leu Asn Tyr Lys Gln Glu Gly Asp
 198 305 310 315 320
 200 Lys Cys Val Glu Asn Pro Asn Pro Thr Cys Asn Glu Asn Asn Gly Gly
 201 325 330 335
 203 Cys Asp Ala Asp Ala Thr Cys Thr Glu Glu Asp Ser Gly Ser Ser Arg
 204 340 345 350
 206 Lys Lys Ile Thr Cys Glu Cys Thr Lys Pro Asp Ser Tyr Pro Leu Phe
 207 355 360 365
 209 Asp Gly Ile Phe Cys Ser Ser Asn Phe Leu Gly Ile Ser Phe Leu
 210 370 375 380

RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/561,196

DATE: 09/12/2006
TIME: 10:55:08

Input Set : A:\056222-5089-US Sequence Listing.txt
Output Set: N:\CRF4\09122006\J561196.raw

```

212 Leu Ile Leu Met Leu Ile Leu Tyr Ser Phe Ile
213 385           390           395
217 <210> SEQ ID NO: 5
218 <211> LENGTH: 396
219 <212> TYPE: PRT
220 <213> ORGANISM: Plasmodium falciparum
222 <400> SEQUENCE: 5
223 Gly Glu Ala Ile Ser Val Thr Met Asp Asn Ile Leu Ser Gly Phe Glu
224   1           5           10           15
226 Asn Glu Tyr Asp Val Ile Tyr Leu Lys Pro Leu Ala Gly Val Tyr Arg
227   20          25           30
229 Ser Leu Lys Lys Gln Ile Glu Lys Asn Ile Phe Thr Phe Asn Leu Asn
230   35          40           45
232 Leu Asn Asp Ile Leu Asn Ser Arg Leu Lys Lys Arg Lys Tyr Phe Leu
233   50          55           60
235 Asp Val Leu Glu Ser Asp Leu Met Gln Phe Lys His Ile Ser Ser Asn
236   65          70           75           80
238 Glu Tyr Ile Ile Glu Asp Ser Phe Lys Leu Leu Asn Ser Glu Gln Lys
239   85          90           95
241 Asn Thr Leu Leu Lys Ser Tyr Lys Tyr Ile Lys Glu Ser Val Glu Asn
242   100         105          110
244 Asp Ile Lys Phe Ala Gln Glu Gly Ile Ser Tyr Tyr Glu Lys Val Leu
245   115         120          125
247 Ala Lys Tyr Lys Asp Asp Leu Glu Ser Ile Lys Lys Val Ile Lys Glu
248   130         135          140
250 Glu Lys Glu Lys Phe Pro Ser Ser Pro Pro Thr Thr Pro Pro Ser Pro
251   145         150          155          160
253 Ala Lys Thr Asp Glu Gln Lys Lys Glu Ser Lys Phe Leu Pro Phe Leu
254   165         170          175
256 Thr Asn Ile Glu Thr Leu Tyr Asn Asn Leu Val Asn Lys Ile Asp Asp
257   180         185          190
259 Tyr Leu Ile Asn Leu Lys Ala Lys Ile Asn Asp Cys Asn Val Glu Lys
260   195         200          205
262 Asp Glu Ala His Val Lys Ile Thr Lys Leu Ser Asp Leu Lys Ala Ile
263   210         215          220
265 Asp Asp Lys Ile Asp Leu Phe Lys Asn His Asn Asp Phe Glu Ala Ile
266   225         230          235          240
268 Lys Lys Leu Ile Asn Asp Asp Thr Lys Lys Asp Met Leu Gly Lys Leu
269   245         250          255
271 Leu Ser Thr Gly Leu Val Gln Asn Phe Pro Asn Thr Ile Ile Ser Lys
272   260         265          270
274 Leu Ile Glu Gly Lys Phe Gln Asp Met Leu Asn Ile Ser Gln His Gln
275   275         280          285
277 Cys Val Lys Lys Gln Cys Pro Glu Asn Ser Gly Cys Phe Arg His Leu
278   290         295          300
280 Asp Glu Arg Glu Glu Cys Lys Cys Leu Leu Asn Tyr Lys Gln Glu Gly
281   305         310          315          320
283 Asp Lys Cys Val Glu Asn Pro Asn Pro Thr Cys Asn Glu Asn Asn Gly
284   325         330          335

```

RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/561,196

DATE: 09/12/2006
TIME: 10:55:08

Input Set : A:\056222-5089-US Sequence Listing.txt
Output Set: N:\CRF4\09122006\J561196.raw

286 Gly Cys Asp Ala Asp Ala Lys Cys Thr Glu Glu Asp Ser Gly Ser Asn
 287 340 345 350
 289 Gly Lys Lys Ile Thr Cys Glu Cys Thr Lys Pro Asp Ser Tyr Pro Leu
 290 355 360 365
 292 Phe Asp Gly Ile Phe Cys Ser Ser Ser Asn Phe Leu Gly Ile Ser Phe
 293 370 375 380
 295 Leu Leu Ile Leu Met Leu Ile Leu Tyr Ser Phe Ile
 296 385 390 395
 300 <210> SEQ ID NO: 6
 301 <211> LENGTH: 396
 302 <212> TYPE: PRT
 303 <213> ORGANISM: Plasmodium falciparum
 305 <400> SEQUENCE: 6
 306 Gly Glu Ala Ile Ser Val Thr Met Asp Asn Ile Leu Ser Gly Phe Glu
 307 1 5 10 15
 309 Asn Glu Tyr Asp Val Ile Tyr Leu Lys Pro Leu Ala Gly Val Tyr Arg
 310 20 25 30
 312 Ser Leu Lys Lys Gln Ile Glu Lys Asn Ile Phe Thr Phe Asn Leu Asn
 313 35 40 45
 315 Leu Asn Asp Ile Leu Asn Ser Arg Leu Lys Lys Arg Lys Tyr Phe Leu
 316 50 55 60
 318 Asp Val Leu Glu Ser Asp Leu Met Gln Phe Lys His Ile Ser Ser Asn
 319 65 70 75 80
 321 Glu Tyr Ile Ile Glu Asp Ser Phe Lys Leu Leu Asn Ser Glu Gln Lys
 322 85 90 95
 324 Asn Thr Leu Leu Lys Ser Tyr Lys Tyr Ile Lys Glu Ser Val Glu Asn
 325 100 105 110
 327 Asp Ile Lys Phe Ala Gln Glu Gly Ile Ser Tyr Tyr Glu Lys Val Leu
 328 115 120 125
 330 Ala Lys Tyr Lys Asp Asp Leu Glu Ser Ile Lys Lys Val Ile Lys Glu
 331 130 135 140
 333 Glu Lys Glu Lys Phe Pro Ser Ser Pro Pro Thr Thr Pro Pro Ser Pro
 334 145 150 155 160
 336 Ala Lys Thr Asp Glu Gln Lys Lys Glu Ser Lys Phe Leu Pro Phe Leu
 337 165 170 175
 339 Thr Asn Ile Glu Thr Leu Tyr Asn Asn Leu Val Asn Lys Ile Asp Asp
 340 180 185 190
 342 Tyr Leu Ile Asn Leu Lys Ala Lys Ile Asn Asp Cys Asn Val Glu Lys
 343 195 200 205
 345 Asp Glu Ala His Val Lys Ile Thr Lys Leu Ser Asp Leu Lys Ala Ile
 346 210 215 220
 348 Asp Asp Lys Ile Asp Leu Phe Lys Asn His Asn Asp Phe Asp Ala Ile
 349 225 230 235 240
 351 Lys Lys Leu Ile Asn Asp Asp Thr Lys Lys Asp Met Leu Gly Lys Leu
 352 245 250 255
 354 Leu Ser Thr Gly Leu Val Gln Asn Phe Pro Asn Thr Ile Ile Ser Lys
 355 260 265 270
 357 Leu Ile Glu Gly Lys Phe Gln Asp Met Leu Asn Ile Ser Gln His Gln
 358 275 280 285

VERIFICATION SUMMARY
PATENT APPLICATION: US/10/561,196

DATE: 09/12/2006
TIME: 10:55:09

Input Set : A:\056222-5089-US Sequence Listing.txt
Output Set: N:\CRF4\09122006\J561196.raw